

Title (en)
DISPOSABLE INSERT AND RE-USABLE SHELL WITH STIFFENING ZONE

Title (de)
WEGWERFEINSATZ UND WIEDERVERWENDBARE SCHALE MIT VERSTEIFUNGSZONE

Title (fr)
INSERT JETABLE ET COQUE RÉUTILISABLE AVEC ZONE DE RENFORCEMENT

Publication
EP 4197505 A1 20230621 (EN)

Application
EP 21214315 A 20211214

Priority
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Abstract (en)
A re-usable outer shell comprising: a front and back waist region having uppermost and lowermost edges; and a crotch region interposed between the front and back waist region, wherein the uppermost edges of the waist region form a waist opening and the lowermost edges of the waist region together with lateral extremities of the crotch region form two oppositely disposed leg openings; and wherein at least the body-facing surface of the crotch region is adapted for receiving an absorbent insert; and wherein at least a portion of said crotch region comprises a stiffening element, wherein the stiffening element is removably fixed to or integrally formed with said outer shell and extends substantially parallel to a longitudinal centerline of said outer shell over a length that is less than the total length of said outer shell in laid out flat state, and wherein said stiffening element has a maximum width and a minimum width wherein the maximum width is greater or equal to the minimum width, and the crotch region of the outer shell has a maximum width wherein the maximum width of the stiffening element is less than 70% of the maximum width of the crotch region.

IPC 8 full level
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Citation (applicant)
• EP 3842017 A1 20210630 - ONTEX BV [BE], et al
• EP 3659563 A1 20200603 - ONTEX BVBA [BE], et al
• EP 3895673 A1 20211020 - ONTEX BV [BE], et al
• EP 3888606 A1 20211006 - ONTEX BV [BE], et al
• US 2020054782 A1 20200220 - CHAN RYAN NICHOLAS [US], et al
• US 4414398 A 19831108 - KOTWICA ROLAND [FR]
• EP 21152698 A 20210121

Citation (search report)
• [X] WO 9858614 A1 19981230 - MOELNLYCKE AB [SE], et al
• [I] WO 2016138466 A1 20160901 - DSG TECHNOLOGY HOLDINGS LTD, et al

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